

Form PTO-1449 (MODIFIED)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 016779/0154	SERIAL NO. 09/667,556
<b>INFORMATION DISCLOSURE CITATION</b>  (Use several sheets if necessary)		APPLICANT Alexander Burger, et al.	
		FILING DATE September 22, 2000	GROUP ART UNIT 1648

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE

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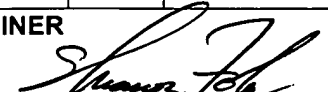
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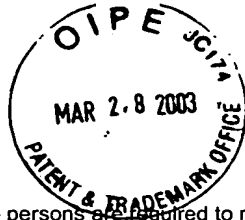
	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION	
							YES	NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

SF	C1	ZHOU et al., "Glycosylation of Human Papillomavirus Type 16 L1 Protein", <u>VIROLOGY</u> , 194, pages 210-218, (1993)

EXAMINER 	DATE CONSIDERED 9/6/3
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Substitute for form 1449B/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> Date Submitted: March 24, 2003 (use as many sheets as necessary)		<b>Complete if Known</b>	
		Application Number	09/667,556
		Filing Date	September 22, 2000
		First Named Inventor	Alexander BURGER, et al.
		Group Art Unit	1648
		Examiner Name	S. Foley
		Attorney Docket Number	016779/0154

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			

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		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
SF	D1	WIPO	WO 99/01557		SUZICH, et al.	01/14/1999		

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SF	D2	M. LI, et al., <i>Expression of the Human Papillomavirus Type 11 L1 Capsid Protein In Escherichia coli: Characterization of Protein Domains Involved in DNA Binding and Capsid Assembly</i> , JOURNAL OF VIROLOGY, Vol. 71, No. 4, pgs. 2988-2995, (1997)		

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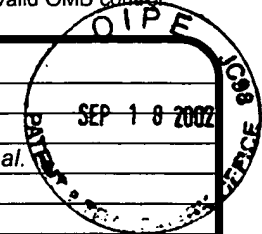
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SF	D1		WO 94/23037		CAMPO et al.			
	D2		WO 90/10459		MENEGUZZI et al.			
	D3		WO 96/00583		DONNELLY et al.			
	D4		WO 96/29091		STANLEY et al.			
	D5		WO 98/04705		BALLOUL et al.			
SF	D6		EP-A-0565794		LAYTON et al.			

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SF	D7	ALTMANN et al.	"Towards HPV Vaccination," in <i>Viruses and Cancer</i> , Eds. Minson et al., Cambridge University Press, 71-80 (1994)	
	D8	BALSLEY et al.	"Progress in the Development of Human Papillomavirus Vaccines for HPV-11 and HPV-16/18 and Mapping of a Critical neutralizing Epitope" Abstract from HPV 2000 Int. Papillomavirus Conf. 366	
	D9	BREITBURD et al.	J. Virol., 69: 3959-3963 (1995)	
	D10	CAMPO	"Vaccination Against Papillomavirus in Cattle" in <i>Current Top Microbiol. Immunol: Human Pathogenic Papillomaviruses</i> , Ed. Zur Hausen, Springer Verlag, Berlin, 186: 255-266 (1994)	
SF	D11	CHRISTENSEN et al.	"Human Papillomavirus Types 6 and 11 Have Antigenically Distinct Strongly Immunogenic Conformationally Dependent Neutralizing Epitopes," <i>Virology</i> , 205: 329-335 (1994)	

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		Group Art Unit	1648
		Examiner Name	S. Foley
Date of Submission: 09/18/02 (use as many sheets as necessary)	Attorney Docket Number	016779/0154	
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SF	D12	CHRISTENSEN et al. "Assembled Baculovirus-Expressed Human Papillomavirus Type 11 L1 Capsid Protein Virus-Like Particles Are Recognized by Neutralizing Monoclonal Antibodies and Induce High Titres of Neutralizing Antibodies," <i>J. Gen. Virol.</i> , 75: 2271-2276 (1994)	
	D13	CRUM et al. "Coexpression of the Human Papillomavirus Type 16 E4 and L1 Open Reading Frames in Early Cervical Neoplasia" <i>Virology</i> , Academic Press, 178: 238-246 (1990)	
	D14	CRUM et al. "Human Papillomavirus Type 16 and Early Cervical Neoplasia" <i>N. Engl. J. Med.</i> , Boston, MA, 310: 880-883 (1984)	
	D15	DILLNER et al. "Antibodies Against Linear and Conformational Epitopes of Human Papillomavirus Type 16 that Independently Associate with Incident Cervical Cancer," <i>Int. J. Cancer</i> , 60: 377-382 (1995)	
	D16	DOORBAR et al. "Identification of the Human Papilloma Virus-1a E4 Gene Products" <i>EMBO J.</i> , 5: 355-362 (1986)	
	D17	FIFE et al. "A Dose-Ranging Study of the Safety and Immunogenicity Profiles of an HPV 11L1 VLP Candidate Vaccine in Young Healthy Woman" Abstract from HPV 2000 Int. Papillomavirus Conf. 364	
	D18	Ghim et al. "HPV-1 L1 Protein Expressed In cos Cells Displays Conformational Epitopes Found on Intact Virions", <i>Virology</i> 190: 548-552	
	D19	GISSMANN "Human Papillomaviruses and Genital Cancer Seminars" in <i>Cancer Biology</i> , 3:253-261 (1992)	
	D20	GREENFIELD et al. "Human Papillomavirus 16 E7 Protein is Associated with the Nuclear Matrix" <i>Proc. Natl. Acad. Sci. USA</i> , 88: 11217-11221 (1991)	
	D21	HAGENSEE et al. "Three-Dimensional Structure of Vaccinia Virus-Produced Human Papillomavirus Type 1 Capsids," <i>J. Virol.</i> , 68: 4503-4505 (1994)	
	D22	HARRY et al. "A Safety and Immunogenicity Trial of a Human Papillomavirus Type 16 L1 Virus-Like Particle Vaccine in Healthy Young Adult Human Volunteers" Abstract from HPV 2000 Int. Papillomavirus Conf. 362	
	D23	HEIM et al. "Serum IgG, IgM, and IgA Reactivity to Human Papillomavirus Types 11 and 6 Virus-Like Particles in Different Gynecologic Patient Groups," <i>J. Infect. Dis.</i> , 172: 395-402 (1995)	
SF	D24	HOFMANN et al. "Sequence Determination of Human Papillomavirus Type 6a and Assembly of Virus-Like Particles in <i>Saccharomyces cerevisiae</i> ," <i>Virology</i> , 209: 506-518 (1995)	

Examiner Signature	<i>Sharon Foley</i>	Date Considered	9/26/03
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		Filing Date	September 22, 2000
Date of Submission: 09/18/02 (use as many sheets as necessary)		First Named Inventor	Alexander BURGER, et al.
		Group Art Unit	1648
Sheet 3 of 5		Examiner Name	S. Foley
		Attorney Docket Number	016779/0154

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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>6</sup>
SE	D25	IKENBERG "Human Papillomavirus DNA in Invasive Genital Carcinomas" in <i>Genital Papillomavirus Infections</i> , Eds. Gross et al., 87-112 (1990)	
	D26	JOCHMUS et al. "Chimeric Virus-Like Particles of the Human Papillomavirus Type 16 (HPV 16) as a Prophylactic and Therapeutic Vaccine", <i>Archives of Medical Research</i> , 30: 269-274 (1999)	
	D27	JOCHMUS-KUDIELKA et al. "Antibodies Against the Human Papillomavirus Type 16 Early Proteins in Human Sera: Correlation of Anti-E7 Reactivity with Cervical Cancer" <i>J. Natl. Cancer Inst.</i> , 81: 1698-1704 (1989)	
	D28	KAUFMANN et al. "HPV16 L1E7 Chimeric Virus-Like Particles Induce Specific HLA-Restricted T Cells in Human After <i>In Vitro</i> Vaccination", <i>Int. J. Cancer</i> , 92: 285-293 (2001)	
	D29	KIRNBAUER et al. "A Virus-Like Particle Enzyme-Linked Immunosorbent Assay Detects Serum Antibodies in a Majority of Women Infected With Human Papillomavirus Type 16," <i>J. Natl. Cancer Inst.</i> , 86: 494-499 (1994)	
	D30	LECANN et al. "Detection of Antibodies against Human Papillomavirus (HPV) Type 16 Virions by Enzyme-Linked Immunosorbent Assay Using Recombinant HPV 16 L1 Capsids Produced by Recombinant Baculovirus," <i>J. Clin. Microbiol.</i> , 33: 1380-1382 (1995)	
	D31	LECANN et al. "Self-Assembly of Human Papillomavirus Type 16 Capsids by Expression of the L1 Protein in Insect Cells," <i>FEMS Microb. Lett.</i> , 117: 269-274 (1994)	
	D32	LIU et al. "Mucosal Immunization with Papillomavirus Virus-Like Particles Elicits Systemic and Mucosal Immunity in Mice," <i>Virology</i> , 252: 39-45 (1998)	
	D33	LOWY et al. "Genital Human Papillomavirus Infection," <i>Proc. Nat. Acad. Sci. USA</i> , 91: 2436-2440 (1994)	
	D34	MÜLLER et al. "Papillomavirus Capsid Binding and Uptake by Cells from Different Tissues and Species," <i>J. Virol</i> , 69: 948-954 (1995)	
	D35	NASSERI et al. "Genetic Analysis of CRPV Pathogenesis: the L1 Open Reading Frame is Dispensable for Cellular Transformation But Is Required for Papilloma Formation", <i>Virology</i> , Academic Press, 170: 321-325 (1989)	
	D36	NONNENMACHER et al. "Serologic Response to Human Papillomavirus Type 16 (HPV-16) Virus-Like Particles in HPV-16 DNA-Positive Invasive Cervical Cancer and Cervical Intraepithelial Neoplasia Grade III Patients and Controls from Columbia and Spain," <i>J. Infect. Dis.</i> , 172: 19-24 (1995)	
SE	D37	PARKIN et al. "Estimates of the Worldwide Frequency of Sixteen Major Cancers in 1980", <i>Int. J. Cancer</i> , Alan R. Liss, Inc., 41: 184-197 (1988)	

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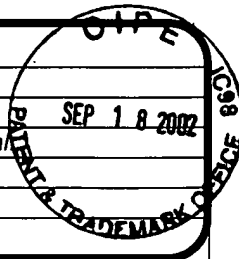
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SE	D38	POLAND et al. "A Randomized, Double-Blind, Placebo-Controlled Trial of the Immunogenicity and Reactogenicity of a Novel HPV 16 Vaccine: Preliminary Results" Abstract from HPV 2000 Int. Papillomavirus Conf. 363	
	D39	PUSHKO et al. "Sequence Variation in the Capsid Protein Genes of Human Papillomavirus Type 16" <i>J. Gen. Virol.</i> , 75: 911-916 (1994)	
	D40	RODEN et al. "Papillomavirus L1 Capsids Agglutinate Mouse Erythrocytes through a Proteinaceous Receptor," <i>J. Virol.</i> , 69: 5147-5151 (1995)	
	D41	RODEN et al. "In Vitro Generation and Type-Specific Neutralization of a Human Papillomavirus Type 16 Virion Pseudotype", <i>J. Virol.</i> , 70: 5875-5883 (1996)	
	D42	RODEN et al. "Interaction of Papillomaviruses with the Cell Surface," <i>J. Virol.</i> , 68: 7260-7266 (1994)	
	D43	ROSE et al. "Serological Differentiation of Human Papillomavirus Types 11, 16 and 18 Using Recombinant Virus-Like Particles," <i>J. Gen. Virol.</i> , 75: 2445-2449 (1994)	
	D44	ROSE et al. "Human Papillomavirus (HPV) Type 11 Recombinant Virus-Like Particles Induce the Formation of Neutralizing Antibodies and Detect HPV-Specific Antibodies in Human Sera," <i>J. Gen. Virol.</i> , 75: 2075-2079 (1994)	
	D45	RUDOLF et al. "Induction of HPV16 Capsid Protein-Specific Human T Cell Responses by Virus-Like Particles", <i>Biol. Chem.</i> , 380: 335-340 (1999)	
	D46	SAPP et al. "Analysis of Type-Restricted and Cross-Reactive Epitopes on Virus-Like Particles of Human Papillomavirus Type 33 and in Infected Tissues Using Monoclonal Antibodies to the Major Capsid Protein" <i>J. Gen. Virology</i> , 75: 3375-3383 (1994)	
	D47	SASAGAWA et al. "Synthesis and Assembly of Virus-Like Particles of Human Papillomaviruses Type 6 and Type 16 in Fission Yeast <i>Schizosaccharomyces pombe</i> ," <i>Virology</i> , 206: 126-135 (1995)	
	D48	TINDLE et al. "Immune Response to Human Papillomaviruses and the Prospects for Human Papillomavirus-Specific Immunization" in <i>Current Topics in Microbiol. Immunol: Human Pathogenic Papillomaviruses</i> , Ed. zur Heusen, Springer Verlag, Berlin, 186:217-254 (1994)	
	D49	TOES et al. "An Adenovirus Type 5 Region 1B-Encoded CTL Epitope-Mediating Tumor Eradication by CTL Clones Is Down-Modulated by an Activated <i>ras</i> Oncogene", <i>The Journal of Immunology</i> , 154: 3396-3405 (1995)	
SE	D50	TOES et al. "Peptide Vaccination Can Lead to Enhanced Tumor Growth Through Specific T-cell Tolerance Induction", <i>Proc. Natl. Acad. Sci.</i> , 93: 7855-7860 (1996)	

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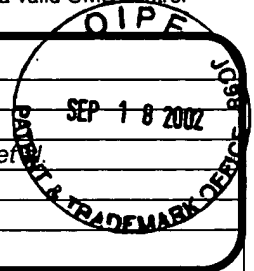
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	D52	VOLPERS et al. "Assembly of the Major and the Minor Capsid Protein of Human Papillomavirus Type 33 into Virus-like and Tubular Structures in Insect Cells," <i>Virology</i> , Academic Press, 200: 504-512 (1994)	
	D53	VON KNEBEL DOEBERITZ et al. "Correlation of Modified Human Papillomavirus Early Gene Expression with Altered Growth Properties in C4-I Cervical Carcinoma Cells" <i>Cancer Res.</i> , 48: 3780-3786 (1988)	
	D54	WETTSTEIN "State of Viral DNA and Gene Expression in Benign vs. Malignant Tumors" in <i>Papillomaviruses and Human Cancer</i> , Eds. H. Pfister, CRC Press, Boca Raton, Florida, USA, 155-179 (1990)	
	D55	WIKSTROM et al. "Identification of Human Papillomavirus Seroconversions," <i>J. Gen. Virol.</i> , 76: 529-539 (1995)	
	D56	ZHOU et al. "Synthesis and Assembly of Infectious Bovine Papillomavirus Particles <i>in Vitro</i> " <i>J. Gen. Virol.</i> , Great Britain, 74: 763-768 (1993)	
	D57	ZHOU et al. "Glycosylation of Human Papillomavirus Type 16 L1 Protein" <i>Virology</i> , 194: 210-218 (1993)	
SF	D58	ZUR HAUSEN "Papillomaviruses as Carcinomaviruses" in <i>Advances in Viral Oncology</i> , Eds. Klein et al., Raven Press, New York 8:1-26 (1989)	

Examiner Signature	<i>Sharon Foley</i>	Date Considered	9/26/03
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